

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A method for applying individualized calibrated tone-reproduction curves on a single page basis to enable printing of image data associated with a job having a plurality of pages, comprising:

(a) providing a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type;

(b) assigning a first media type to a first group of pages in the job;

(c) assigning a second media type to a second group of pages in the job;

(d) receiving a page of image data to be printed;

(e) determining a halftone type to be used in printing the image data;

(e)(f) selecting a calibrated tone-reproduction curve for the received page of image data based on the assigned media type and determined halftone type; and

(f)(g) applying the selected calibrated tone-reproduction curve to print the page of image data.

2. (Currently Amended) The method as claimed in claim 1, further comprising:

(g)(h) printing of image data on a xerographic printing device using the selected calibrated tone-reproduction curve.

3. (Canceled)

4. (Canceled)

5. (Currently Amended) The method as claimed in claim 1, further comprising:

~~(g)~~(h) performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;

~~(h)~~(i) generating a tone-reproduction curve for each media type and halftone type combination;

~~(i)~~(j) storing the generated the tone-reproduction curves; and

~~(j)~~ determining a halftone to be used in printing the image data;

said (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

said ~~(e)~~ selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

6. (Canceled)

7. (Currently Amended) The method as claimed in claim 1, further comprising:

~~(g)~~(h) performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;

~~(h)~~(i) generating a tone-reproduction curve for each media type and halftone type combination calibration;

~~(i)~~(j) comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;

~~(j)~~(k) selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media type and halftone type combinations that generated the tone-reproduction curve having similar characteristics;

~~(k)~~(l) storing selected and non-grouped tone-reproduction curves; and

~~(l)~~(m) generating a map to link a stored tone-reproduction curve to a media type and halftone type combination, a stored tone-reproduction curve being capable of being mapped to more than one media type and halftone type combination; and

~~(m)~~(n) determining a halftone to be used in printing the image data;

said (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

~~said (e) selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.~~

8. (Currently Amended) A system for applying individualized calibrated tone-reproduction curves on a single page basis to enable printing of image data associated with a job having a plurality of pages, comprising:

a storage device to store and provide a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type;

an input device to select a halftone type to be used in printing the image data and to assign a first media type to a first group of pages in the job and to assign a second media type to a second group of pages in the job;

and a processor to receive a page of image data to be printed, to select a calibrated tone-reproduction curve for the received page of image data based on the assigned media type and selected halftone type, and to apply the selected calibrated tone-reproduction curve to print the page of image data.

9. (Original) The system as claimed in claim 8, further comprising:
a xerographic printing device using the selected calibrated tone-reproduction curve to print images.

10. (Canceled)

11. (Canceled)

12. (Currently Amended) The system as claimed in claim 8, further comprising:

calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;

said calibration means generating a tone-reproduction curve for each media type; ~~said input device selecting a halftone to be used in printing the image data;~~

said storage device storing the generated the tone-reproduction curves and providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said processor selecting a calibrated tone-reproduction curve based on the assigned media type and selected halftone type.

13. (Canceled)

14. (Currently Amended) The system as claimed in claim 8, further comprising:

calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination; said calibration means generating a tone-reproduction curve for each media type and halftone type combination calibration;

said calibration means comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;

said calibration means selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media type and halftone type combinations that generated the tone-reproduction curve having similar characteristics;

said storage device storing both selected and non-grouped tone-reproduction curves; said calibration means generating a map to link a stored tone-reproduction curve to a media type and halftone type combination, a stored tone-reproduction curve being capable of being mapped to more than one media type and halftone type combination; and

~~said input device selecting a halftone to be used in printing the image data;~~
said storage device providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

said processor selecting a calibrated tone-reproduction curve based on the assigned media type and selected halftone type.

15. (Original) The system as claimed in claim 8, further comprising:
an auto-segmentation circuit to determine a halftone to be used in printing the image data; said storage device providing a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination; said processor selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

16. (Original) The system as claimed in claim 8, further comprising:
calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;
said calibration means generating a tone-reproduction curve for each media type; and an auto-segmentation circuit to determine a halftone to be used in printing the image data;
said storage device storing the generated the tone-reproduction curves and providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;
said processor selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

17. (Currently Amended) A method for applying individualized calibrated tone-reproduction curves on a single page basis to enable printing of image data associated with a job having a plurality of pages, comprising:

- (a) performing a plurality of calibration operations, each calibration operation using a distinct halftone type and media type;
- (b) generating a tone-reproduction curve for each media type and halftone type combination;
- (c) storing the generated the tone-reproduction curves;

(d) assigning a first media type to a first group of pages in the job;
(e) assigning a second media type to a second group of pages in the job;
(f) receiving a page of image data to be printed;
(g) determining a halftone type to be used in printing the image data;
~~(g)~~ (h) selecting a calibrated tone-reproduction curve for the received page of
image data based on the assigned media type and selected halftone type; and
~~(h)~~ (i) applying the selected calibrated tone-reproduction curve to print the
page of image data.

18. (Currently Amended) The method as claimed in claim 17, further
comprising:

(+) (j) printing of image data on a xerographic printing device using the
selected calibrated tone-reproduction curve.